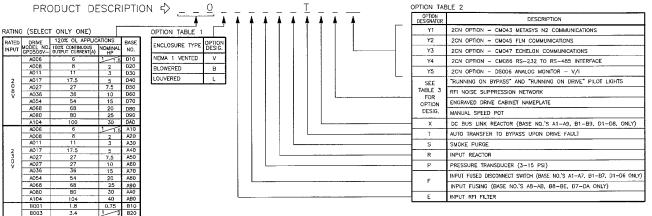


Job Name: Contractor: **Document: C21-HOT** Sheet 2 of 2



OPTION COMBINATION TABLE 3

OPTION		OPTION DESIGNATION													
		2	3	4	5	6	7	G	Н	J	к	L	N	U	W
PILOT LIGHTS	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
RFI NOISE SUPPRESSION NETWORK	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
ENGRAVED DRIVE CABINET NAMEPLATE		1	1	0	0	1	1	0	0	1	1	0	0	1	1
MANUAL SPEED POT		0	1	0	1	0	1	0	1	0	1	0	1	0	1

1 = OPTION IS PRÉSENT

SPECIAL PARAMETER SETTINGS TABLE 4 (SEE NOTE 8)

B50

15 970

20 880 25 30 40 890 8A0

B004

B008

B011

B014

B021

B027

B041

B065 B096

PARAMETER	DATA	UNIT	DESCRIPTION/REMARKS
n001	3	N/A	READ/WRITE TO ALL PARAMETERS
n002	SEE TABLE 5	N/A	DRIVE OPERATION MODE SELECTION
n003	460(230)	٧	STANDARD MAX VOLTAGE SETTING
noos	208	٧	MAX VOLTAGE SETTING FOR BASE NO. "D_"
n006	1	N/A	REVERSE RUN DISABLED
n007	0	N/A	LOCAL/REMOTE KEY DISABLED
n018	60.0	S	ACCELERATION TIME
nO19	60.0	S	DECELERATION TIME
n024	10.0	ΗZ	KEYPAD SPEED REFERENCE
n033		AMPS	MOTOR FULL LOAD AMPS- (MUST BE SET BY CUSTOMER)
n038	5	N/A	REMOTE/LOCAL (USED FOR NORMAL/TEST)
n039	9	N/A	TERMINAL S5 SELECTS AUTO/HAND SPEED REFERENCE SELECT
n040	21	N/A	PID CONTROL DISABLE
n043	1	N/A	TERMINALS FI AND FV ANALOG INPUT SELECTION
n044	0	N/A	FOR OPTION P 0-10VDC AUTO MODE INPUT, WITH CONTROL BOARD JUMPER J1 CUT
	1	N/A	4-20MADC AUTO MODE INPUT
n055	1	N/A	MOMENTARY POWER LOSS RIDE THROUGH ENABLED
n056	20	%	SPEED SEARCH OPERATION LEVEL
n057	1.0	S	MINIMUM BASE BLOCK TIME
n058	25	%	V/F DURING SPEED SEARCH
n061	1	N/A	DRIVE FAULT RELAY DE-ENERGIZED DURING AUTO RESTART ATTEMPTS
n068	50	%	DC INJECTION BRAKING CURRENT LEVEL
n070	5.0	S	DC INJECTION BRAKING TIME AT START

DRIVE OPERATION MODE SELECTION TABLE 5

	n002 SETTINGS	RUN/STOP COMMAND	FREQUENCY REFERENCE	SEE NOTE	
I	0	KEYPAD	KEYPAD	9	1
Ì	1	EXT. TERMINALS	KEYPAD		l
Ì	2	KEYPAD	EXT. TERMINALS	9	l
	3 FACTORY SETTING	EXT. TERMINALS	EXT. TERMINALS		
1	4	KEYPAD	SERIAL COMM.	9	Γ
İ	5	EXT. TERMINALS	SERIAL COMM.		1
Ì	6	SERIAL COMM.	SERIAL COMM.	10	1
1	7	SERIAL COMM.	KEYPAD	10	1
I	8	SERIAL COMM.	EXT. TERMINALS	10	1

NOTES:

- * COMPONENTS NOT SUPPLIED BY YASKAWA.
- CUSTOMER WIRING. FOR 0 TO 100 AMPS, USE 80° -75°C COPPER WIRE.

 ABOVE 100 AMPS, USE 75°C COPPER WIRE.
- O CUSTOMER CONNECTION POINT ON PANEL MOUNTED TERMINAL BLOCK TB1. TORQUE WIRE CONNECTIONS TO 10 LB. NI.

 FACTORY CONNECTION POINT ON DRIVE A1.
- REFER TO THE PRODUCT DESCRIPTION AND ASSOCIATED OPTION TABLES TO DETERMINE WHICH OPTIONS ARE PRESENT.
- CONNECTED TO PANEL CUSTOMER TO CONNECT PANEL GROUND LUG TO EARTH GROUND.
 MOTOR OVERLOAD RELAY, \$12, IS FACTORY SET FOR MANUAL RESET, CUSTOMER TO
 ADJUST \$12 TERP SCTIME FOR THE AC MOTOR'S PILL LOAD AMPS.
- TERMINALS SUPPLIED FOR INSERTION OF NORMALLY CLOSED CUSTOMER SAFETY CONTACTS I.E. FIRESTAT, FREEZESTAT, WINDING OR BEARING TEMPERATURE ACTIVATED SWITCHES. IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER J1.
- SMITCHES. IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER J.I.
 A. TERNINALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED DAMPER ELECTRIC
 PRICINATIC VALVE (SOLENOD), WITH A MAXIMUM POWER RATING OF JOVA SEALED
 MAN 9794 INRUSH, USED TO CONTROL THE OPENING MAD COSING OF A SPACE
 MAPPER, IF APPLICABLE, CHANGE DRIVE PARAMETER MODA TO 1.
 B. TERNINALS SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED, NORMALLY OPEN,
 DAMPER END SUPPLIED FOR INSERTION OF CUSTOMER SUPPLIED, NORMALLY OPEN,
 IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER J.

- IF APPLICABLE, REMOVE THE FACTORY INSTALLED JUMPER JZ.

 INSULATED TWISTED SHILEDED WIRE IS REQUIRED. 2 CONDUCTOR F18GA. (BELDON #8760, OR EQUIVALENT), SHILED TO CONNECT TO PROPER TERMINAL AS SHOWN, CONNECT THE SHELD ONLY AT THIS EIN. STUD AND ISOLATE THE OTHER EIN. DO NOT RUIN THESE WIRES IN THE SAME CONDUIT AS THE AC POWER AND AC CONTROL WIRES. DRIVE PARAMETER ADTO IS PROVIDED TO PREVIOUT THE PROVE FROM STARTING INTO A SPIRING MOTOR FOLLOWING A TRANSITION FROM THE EPPASS MODE TO THE ORIVE MODE OF OPERATION, CUSTOMER TO FIRED ADMINISTRATOR TO FIT DEFOLIED TO THE STOP TIME (IN SECONDS) OF THE AS MOTOR FROM MARKET STEED, WHEN SWITCHING FROM THE STRANS TO THE DAYS MODE OF OPERATION.
- WHEN PRESSURE TRANSDUCER (OPTION P) IS PRESENT (SEE OPTION TABLE 2), CONNECT THE PREUMATIC SIGNAL AS SHOWN ON PAGE 1, SET PARAMETER nO44 TO "0", AND CUT JUMPER JI ON THE ORIVE CONTROL BOARD.
- F A "2 WRE" OR "3 WRE" INITIALIZATION IS PERFORMED ON THE DRIVE, THEN THE DRIVE PARAMETERS NEED TO BE RE-ENTERED, AS SHOWN IN THE SPECIAL PARAMETER SETTINGS TABLES 4 AND 5.
- FRUN/STOP IS TO BE PERFORMED VIA THE DRIVE KEYPAD, THEN THE CUSTOMER SAFETY INTERIOCK, THE DAMPER CONTROL AND THE DAMPER END SWITCH WILL NO LONGER FUNCTION. CONTACT THE FACTORY, IF THESE PUNCTIONS ARE REQUIRED.
- 10. SERIAL COMMUNICATIONS RUN/STOP CONTROL:

 THE CUSTOMER MUST ADD A JUMPER US BETWEEN POINTS 3 AND 4 ON THE PANEL MOUNTED
 THE CUSTOMER MUST ADD A JUMPER US BETWEEN POINTS 3 AND 4 ON THE PANEL MOUNTED
 TERMAL ELOCK TBI, AND THE HAND/STOP/AUTO SWITCH, 52 MUST BE IN THE "AUTO" POSITION,
 IF SERIAL COMMUNICATIONS IS TO BE USED TO CONTROL THE RUN/STOP OF THE DRIVE.
- 11. HAND/STOP/AUTO. SWITCH. OPERATION:
 THE FUNCTION OF THE HAND/STOP/AUTO SWITCH IS TO SELECT SPEED AND A CUSTOMER SUPPLED
 CONTACT FOR A RAN COMMAND. THE HAND POSTION SELECTS THE CASENET DOOR MOUNTED
 SPEED FOR IT FOR SEED AND A CONTACT FOR A RAN COMMAND. THE HAND POSTION SELECTS THE CASENET DOOR MOUNTED
 SPEED FOR IT FOR SEED AND A RAN COMMAND ACTIVATIED BY THE BEPTAS/OF/FORME SMITCH.
- 12. TEST/NORMAL SWITCH OPERATION:
 THE FUNCTION OF THE TEST/NORMAL SWITCH IS TO TEST THE DRIVE WHILE IN ETHER THE CFF
 OR BYPKSS MODE, IF THE TEST/NORMAL SWITCH IS IN THE TEST POSITION WHILE OPERATING IN
 THE DRIVE MODE, THEN THE DRIVE WILL FAULT ON AN "EFS", THIS FAULT MAY BE RESET BY
 RISEST SWITCHING TO ETHER "BYPKSS" OR "CFT", AND THEN PRESSING RESET ON THE DRIVE
- FOR GPD506 BYPASSES WITH A CONTROL TRANSFORMER, T1, POWER RATING OF 350VA OR GREATER, A SECONDARY FUSE, F6, IS ADDED.
- 14. ALTO TRANSFER OPTION IS DESIGNED TO ALTOWARD THE AUTO TRANSFER OPTION IS DESIGNED TO AUTOMATICALLY TRANSFER FROM THE DRIVE MODE OF OPERATION TO THE BYRASS MODE OF OPERATION, UPON A DRIVE FAULT CONDITION, WHEN THE BYRASS/OFF/DRIVE SWITCHISE OF THE METHOD THE TO TO THE MITTING A FEW SECONDS FOR THE KEYPAD LED DISPLAY TO OR BLANK, AND THIN SWITCHISE OF THE WEST ON THE TO AUTOMATION OF THE METHOD A TO AUSTO THE DISPLAY TO OR BLANK, AND THIN SWITCHISE OR DISPLAY ASSUMING THAT THE CONDITION WHICH OLASED THE DRIVE TO FAULT HAS DISPLAYED.

	PO	MANUF.		
CONTACT	BYPASS	OFF	DRIVE	/TYPE
1	Х			1RO
2			Х	1L0
3			Х	2LO
4			Х	3LO
5			х	4LO

· SCHEMATIC SHOWS THIS POSITION.

CON

CONTACT S X - INDIC	EQUENC ATES C	CE CHAP ONTACT	RT FOR CLOSE		CONTACT S X — INDIC		CONTACT		
	POSITION			MANUF.		CONTACT	POSITION		MANUF.
CONTACT	HAND	STOP	AUTO*	/TYPE		CONTACT	TEST	NORMAL	/TYPE
1	х			1R0		1		Х	1R0
2			х	1L0		2	Х		1LC
3	×			2R0		3	Х		2RC
4			Х	2L0	ı	4	Х		2LC
5	×			3RO		5		х	3RO

CONTACTS 4 AND 5 PRESENT ONLY WITH OPTION P.

. SCHEMATIC SHOWS THIS POSITION

· SCHEMATIC SHOWS THIS POSITION.